Docket No.

241942US3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Noboru TSUBOI

SERIAL NO: New Application

GAU:

FILED:

Herewith

EXAMINER:

FOR:

SCREW REFRIGERATING APPARATUS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment form is enclosed herewith, or credit any overpayment to deposit account number <u>15-0030</u>. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

C. Irvin McClelland

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STATEMENT OF RELEVANCY

Reference AO on Form PTO-1449:

This reference is explained in the specification.

PURPOSE: To enable a compressor to easily start and to do so even in a situation that pressure during its stop is high as just after its defrosting, by installing an unloader mechanism to the higher stage side of a two-stage compressor.

CONSTITUTION: A compound-type two-stage screw compressor has a casing 4 of a higher stage, a casing 1 of a lower stage and rotors 2, 3, 5, 6. Here a bypass hole 16 is installed to bypass gas in compression stroke into the casing on the higher stage side and rotors 5, 6. The gas in compression stroke is thus bypassed (an unloader function) to a medium pressure part and the pressure does not rise, so a starting load can be lightened.

Form PTO 1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE			ATTY DOCKET NO.		SERIAL NO.				
			241942US3	New Application					
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT					
				Noboru TSUBOI					
				FILING DATE		GROUP			
				Herewith					
U.S. PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)									
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Examiner					Date Considered				
*Examiner: Ir conformance	*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								